

ELECTROMAGNET DEVICE

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Abstract of JP61102008

PURPOSE: To minimize magnetic flux leaked to outside and to have few mutual effect even if the plural titled devices are disposed in close vicinity each other by a method wherein an iron core, a permanent magnet block and the like are disposed in a frame to be magnetic circuit, and the magnetic flux of the permanent magnet is sealed by the frame.

CONSTITUTION: An iron core 2 and a permanent magnet block 3 are located in a frame 1 of magnetic circuit and the iron core 2 is connected magnetically with the frame 1 and is inserted into an axial aperture of a winding frame 5 of a coil 4. The magnetic pole 6 of the iron core 2 has different polarity with the magnetic pole 7 of the frame 1 caused by excitation of the coil 4. The same side edges 8a, 9a of the magnetic substance of the permanent magnet block 3 hold the iron core magnetic pole 6 and the other side edges 8b, 9b are disposed facing the frame magnetic pole 7. The block 3 is swayed in clockwise or counterclockwise direction centering around fulcrum 11 installed to a permanent magnet 10 according to variation of exciting state of the coil 4, however, respective section of the permanent magnet 10 are kept at normal state by the reason that a closed magnetic circuit with the same intensity by the magnetic flux of the permanent magnet 10 is formed at the time of non excitation. If the portion of M is cut off, the block 3 becomes monostable type. By this constitution, the electromagnet device, which is used effectively to contact switching of a polarized relay, is obtained.

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